

need more output fields ...

[wd20wz](#) 4 posts since

May 22, 2008 Hi,

I need to output more fields such as vegetation fraction (vegip) and roughness length (Z0), which are not listed in model output configuration (lis.config). How to add these fields in model output files?

Thanks.

Weizhong Tags: lis, output, parameters

[wd20wz](#) 4 posts since

May 22, 2008 **1. Re: need more output fields** Jun 3, 2008 11:45 AM

Also how to add 'Vegetation typ" and "Soil type" into output files?

Weizhong

[sujay](#) 118 posts since

Sep 20, 2007 **2. Re: need more output fields** Jun 3, 2008 2:50 PM

in response to: [wd20wz](#) Hi Weizhong,

A limited support currently exists for writing parameter files for your integration. Please see the testcase corresponding to :

PARAMETER OUTPUT TEST for an example.

LIS can output all model-independent parameters (such as LAI, SAI, etc.) , but does not handle the model -specific parameters right now. You can easily add them to the list of output variables though by modifying the noah_binout routine. One disadvantage of adding parameters to the standard output would be the disk space being wasted, since these are primarily constant parameters.

-S

[schaffec](#) 17 posts since

Aug 1, 2008 **3. Re: need more output fields** Aug 15, 2008 10:16 AM

in response to: [sujay](#) When I add canopy water content (cmc) to noah_binout, a compilation error occurs:

PGF90-S-0142-cmc is not a member of this RECORD (../lsms/noah.2.7.1/noah_binout.F90: 164)

Is there another routine that needs to be modified in order to add variables to the output?

Thanks,

Chris

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EDIT: In noah_main, it looks like canopint is assigned the value "cmc*1000.0", and canopint is part of the standard output, so maybe there is no need to output cmc?

Message was edited by: schaffec

[sujay](#) 118 posts since

Sep 20, 2007 4. **Re: need more output fields** Aug 15, 2008 10:22 AM

in response to: [schaffec](#) Chris,

I have to see the exact lines in the code that you added to see what the problem is.

Yes. canopint is a surrogate for CMC. May be that will work for you.

-S

[schaffec](#) 17 posts since

Aug 1, 2008 5. **Re: need more output fields** Aug 15, 2008 11:04 AM

in response to: [sujay](#)

Hello,

Attached is my noah_binout.F90 file, and the lines I added are lines 163 through 166.

It will probably be easier to just use canopint, but I may need to add variables to output sometime in the future.

Thanks!

Chris **Attachments:**

- [noah_binout.F90](#) (8.9 K)

[wd20wz](#) 4 posts since

May 22, 2008 6. **Re: need more output fields** Aug 15, 2008 11:51 AM

Chris:

Please check units for Cmc and correct them.

Line 165:

```
metadata_output%cmc,noah_struc(n)%noah%cmc,"Cmc(units)",1)
```

Weizhong

[schaffec](#) 17 posts since

Aug 1, 2008 7. **Re: need more output fields** Aug 16, 2008 11:56 AM

in response to: [wd20wz](#) Hello,

The units for cmc are not provided in the documentation, which is why I was not sure what to enter. I tried using kg/m2, a dash (which was used for unitness variables like albedo), and leaving units off entirely, but none of these options worked.

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On a side note, canopint is given units of kg/m2sec in the documentation, but the units are specified to be kg/m2 in the lis.config file.

Chris